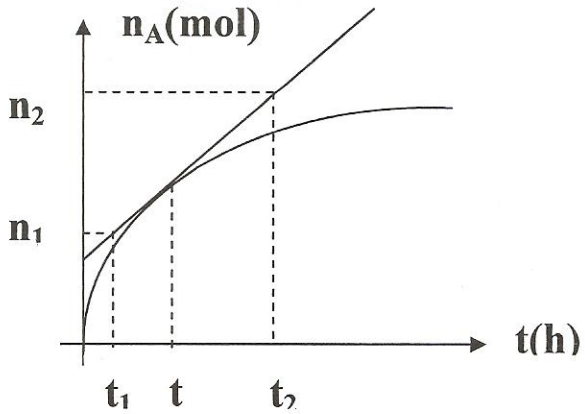
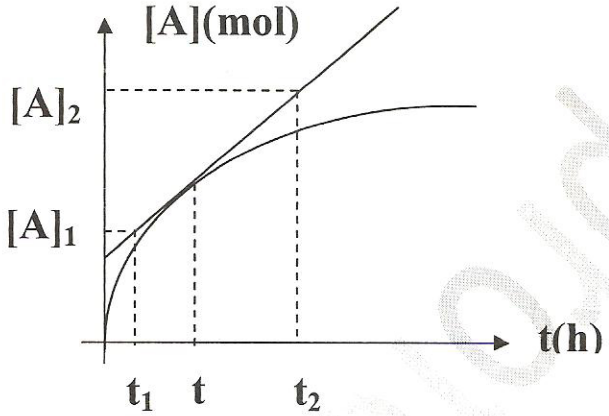
3- السرعة الحجمية لتشكل النوع A :

$$v_A = \frac{1}{V}\frac{dn_A}{dt} = \frac{d[A]}{dt}$$



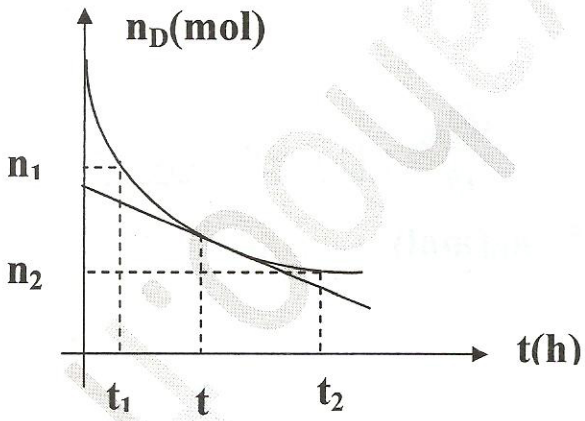


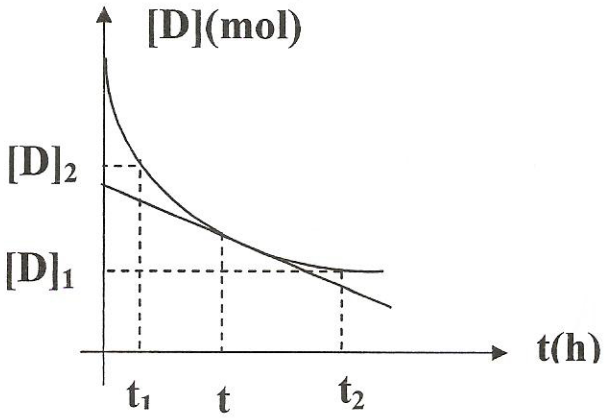
$$v_A = \frac{1}{V}\frac{n_2 - n_1}{t_2 - t_1}$$

$$v_A = \frac{[A]_2 - [A]_1}{t_2 - t_1}$$

4- السرعة الحجمية لإختفاء النوع D :

$$v_D = -\frac{1}{V}\frac{dn_D}{dt} = -\frac{d[D]}{dt}$$





$$v_D = -\frac{1}{V}\frac{n_2 - n_1}{t_2 - t_1}$$

$$v_D = -\frac{[D]_2 - [D]_1}{t_2 - t_1}$$

حيث V هو حجم وسط التفاعل المائي .